

COPY

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/11944

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl⁷ H04Q7/38, H04J15/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ H04B7/24-7/26, H04Q7/00-7/38, H04J15/00Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1994-2003
Kokai Jitsuyo Shinan Koho 1971-2003 Jitsuyo Shinan Toroku Koho 1996-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 02/07344 A1 (Sanyo Electric Co., Ltd.), 24 January, 2002 (24.01.02), Full text; all drawings & AU 200171040 A & EP 1317081 A1 & US 2002/0039886 A1 June	1, 4, 7, 10, 13, 16
A	JP 2002-516550 A (Telefonaktiebolaget LM Ericsson (publ)), 06 04 January, 2002 (04.01.02), Par. Nos. [0020] to [0022], [0026]; all drawings & WO 99/60809 A1 & AU 9945384 A & EP 1078543 A1 & TW 420962 A & KR 2001043588 A & CN 1308824 A & US 6542484 A	2, 3, 5, 6, 8, 9, 11, 12, 14, 15, 17, 18
Y	JP 2002-516550 A (Telefonaktiebolaget LM Ericsson (publ)), 06 04 January, 2002 (04.01.02), Par. Nos. [0020] to [0022], [0026]; all drawings & WO 99/60809 A1 & AU 9945384 A & EP 1078543 A1 & TW 420962 A & KR 2001043588 A & CN 1308824 A & US 6542484 A	1, 4, 7, 10, 13, 16
A		2, 3, 5, 6, 8, 9, 11, 12, 14, 15, 17, 18

 Further documents are listed in the continuation of Box C. See patent family annex.

"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier document but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 18 December, 2003 (18.12.03)	Date of mailing of the international search report 13 January, 2004 (13.01.04)
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Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer
Facsimile No.	Telephone No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2001-231072 A (Sanyo Electric Co., Ltd.), 24 August, 2001 (24.08.01), Full text; all drawings & US 2001/0019952 A1 & CN 1309511 A & TW 525401 A	1-18